

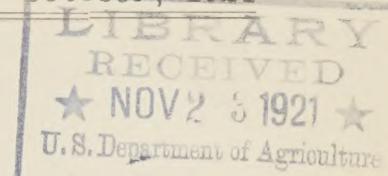
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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 90

October, 1921



TRUCK-CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge

Prof. H. F. Wickham, special field agent in Mexican bean beetle investigations, returned, September 21, from a preliminary survey of the Mexican bean beetle in its native home, southern Mexico. Professor Wickham entered Mexico August 6, and proceeded to Mexico City, which was made the headquarters for the investigations undertaken. Many observations were made on the growing of beans in the lowlands and in the mountains extending as far as an altitude of 10,000 feet. A number of varieties of beans were secured for experimental purposes, and observations, with special reference to securing natural enemies and parasites, were begun. In the vicinity of Cuernavaca the bean beetle occurred abundantly on wild legumes and was a most important bean pest. Near Orizaba the few beans found in cultivation were badly damaged. The beetle was not found in the vicinity of Guadalajara in Jalisco, although its nonoccurrence is not explained. A single specimen of a dipterous parasite of the larvae hitherto unknown was collected. Some promising information was obtained which completely justifies a more extensive investigation during the coming summer.

J. E. Graf, entomologist in charge of field control, Mexican bean beetle, recently visited Washington (October 6 to 16) for the purpose of conference with regard to the Mexican bean beetle.

L. W. Brannon, D. M. Dowdell, jr., H. B. Lancaster, and F. R. White, temporary field assistants in Mexican bean beetle control, have accepted probationary appointments as plant quarantine inspectors with this office.

M. H. Atwood, F. I. Jeffrey, and E. G. Small, formerly temporary field assistants in Mexican bean beetle control, have accepted appointment as plant quarantine inspectors with the Federal Horticultural Board.

R. H. Turner and W. P. Whitlock, field assistants in Mexican bean beetle control, have resigned to return to college.

F. P. Bickley, engaged in Mexican bean beetle control, has been appointed scientific assistant pending certification.

STORED-PRODUCT INSECT INVESTIGATIONS

E. A. Back, Entomologist in Charge

S. E. McClendon of Thomasville, Ga., recently spent several days in Washington, D. C.

Bernard Smit, who has had a temporary appointment as assistant in the bean weevil investigations at Alhambra, Calif., has returned to Cornell University.

to resume graduate study.

J. C. Bridwell when in New York recently made a study of the bruchid types of Schaeffer. He was fortunate in securing for study in Washington the entire collection of Bruchidae belonging to Mr. Schaeffer.

At the request of the Baltimore and Ohio Railroad Dr. E. A. Back has made several trips to Baltimore to cooperate with the company's chemist and elevator superintendent. Grain arriving at Baltimore this year is more heavily infested with insects than usual. Formerly the railroads at Baltimore have been paying private concerns $3\frac{1}{2}$ cents a bushel for fumigating grain in cars and vessels. The railroads have determined to do this work for themselves at a charge to the grain owners of from $1/2$ to $3/4$ of a cent per bushel. With cars holding on an average about 1,500 bushels of wheat one can readily estimate the saving to shippers effected by this change of policy. At a charge of $1/2$ cent per bushel the saving to grain shippers is the difference between \$7.50 and \$52.50.

FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge.

E. R. Van Leeuwen, who has been in charge of the bureau's life-history studies of the codling moth at Cornelia, Ga., has been transferred to New Orleans, La., where he will assist in connection with control operations against the camphor scale. The bureau's laboratory at Cornelia has been closed.

The arsenical spray residue work on pears carried out the past season by A. J. Ackerman at Sacramento, Calif., has been completed, and Mr. Ackerman has been transferred to Bentonville, Ark., to take charge of the Bureau's laboratory at that place in connection with apple insect investigations.

LIBRARY

Mabel Colcord, Librarian

NEW BOOKS

Andrews, E. A., A note on the susceptibility of woods to borer attack, and on the value of rosin varnish as a protection. Indian tea association. Scientific department. Quarterly Journal 1921, pt. 2, p. 65-78, Calcutta, 1921.

Blaisdell, F. E., New species of Melyridae, Chrysomelidae and Tenebrionidae (Coleoptera) from the Pacific Coast, with notes on other species. 2pl., p. 137-231. Stanford University, Calif. Published by the University, 1921. (Stanford University pub. Univ. Ser. Biol. Sci., v. 1, no. 3.)

Bondar, Grégorio, Bichos daninos da fruticultura e arboricultura... 52 p., illus. S. Paulo, Conde Amadeu A. Barbiellini, 1915. (Bibliotheca agricola popular brazileira N. 22.)

Calman, W. T. Marine boring animals injurious to submerged structures. 34 p., illus. London, printed by the trustees of the British Museum, 1919. (British Museum. Economic series no. 10)

Capen, S. C. Facilities for foreign students in American colleges and universities. Washington, 1921. (U. S. Bureau of Education Bulletin 1920, no. 39.)

Copeland, E. B. The coco-nut. Ed. 2 rev. 225 p., illus., pl. London, Macmillan and company, limited, 1921. Diseases and pests, p. 33-115; insect enemies, p. 68-110.

Crop protection institute. Crop protection digest. (Bulletin series) no. 1, April, 1921. Washington, D. C.

Duckett, A. B. Annotated list of the Halticini. p. 111-155. (Maryland Agr. Exp. Sta. Bul. 241, December, 1921).

Haviland, Maud D. On the bionomics and postembryonic development of certain cynipid hyperparasites of aphides. Quarterly journal of microscopical science, new ser. No. 259, v. 65, pt. 3, p. 451-478, illus. August, 1921. Bibliography, p. 476-478.

Japan Dept. of agriculture and commerce-Bureau of agriculture. An outline of the sericultural industry and sericultural labour in Japan... 16 p. (Tokyo) 1921.

Kisskalt, K., and Hartmann, M. Praktikum der bakteriologie und protozoologie. Jena, Verlag von Gustav Fischer, 1920-21. Ed. 4. 2 v. Th. 1. Bakteriologie. Von Karl Kisskalt. Th. 2. Praktikum der protozoologie, von M. Hartmann.

Massachusetts Dept. of agriculture. Orcharding, revised from the 5th ed. of the bulletin on apply growing. 183 p., illus. Boston, 1921. (Mass. Agr. Bul. no. 2, 5th. ed. rev.) Bibliography, p. 168.

Miller, David. Material for a monograph on the Diptera fauna of New Zealand. Part II. Family Syrphidae. Wellington, N. Z., Marcus F. Marks, government printer, 1921. (Trans. New Zealand Inst., v. 53, p. 289-333, illus., pl. 47-53. Issued August 8, 1921.)

Nicholson, A. J., The development of the ovary and ovarian egg of a mosquito, *Anopheles maculipennis*, Meig. Quarterly Jour. micros. sci. new ser. No. 259, v. 65, pt. 3, p. 395-448, pl. 17-20, August, 1921. List of literature, p. 444-446.

Reitter, Edmund. Fauna germanica. Die kafer des Deutschen Reiches. Nach der analytischen methode bearb. von Edmund Reitter v. 1-5, illus., col. pl. Stuttgart, 1908-1911. (Schriften des Deutschen lehrervereins für Naturkunde, bd. 22, 24, 26.)

Quebec Society for the protection of plants. Thirteenth annual report 1920-21. 79 p. Quebec, Proulex, King's printer, 1921.

Sorauer, Paul. Handbuch der pflanzenkrankheiten. Berlin, Verlagsbuchhandlung Paul Parey, 1921. v. 1. Die nichtparasitären, krankheiten bearbeitet von Paul Graebner, 1921, 959 p.

